

Goals and Modifications for FY 05/06

Table 13: Public Education and Outreach Element

Activity/Best Management Practices	Implementation Plan	Quantifiable Target/Evaluation Tool	Message/Pollutants Addressed	Targeted Audience(s)	Implementers
1. Characterize general public.					
1D Conduct survey	<i>Evaluate and improve survey as needed. Evaluate options for conducting survey and implement.</i>	PM Get at least 300 responses to the survey. Repeat survey in 5th year.			County-wide Program NCFCWCD
2. Outreach to local government officials.					
2C Annual progress reports	Present annual progress report to public officials.	PM Presentations given to local council members, and managers after each annual report is completed.	Program achievements and needs.	Local government officials	All Local Programs/ County-wide Program NCFCWCD
3. Stormwater Website					
3B Evaluate website	Receive feedback on website and continue development/updates.	PM Evaluate annually and continued development/ updates			County-wide Program NCFCWCD
4. Community Events					
4A Develop booth	Develop booth to inform the public on the importance of reducing SW pollution and what they can do to reduce SW pollution.	PM Booth, outreach materials, and activities developed.	Only rain down the stormdrain; reduce use of water, nutrients, and pesticides; hazardous waste disposal and used oil recycling.	General Public	County-wide Program NCFCWCD
4B Staff booth at events	Staff SW booth at community events.	PM Attend at least 3 events per year. (e.g. Earth Day, Home and Garden Show, Symphony on the River, etc.)			
4C Evaluate booth	Use the results from the public surveys to assess the need to target additional pollutants/activities.	PM Continue booth development as needed.			

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5. Outreach to general public					
5B Trash can decals	Provide bilingual (English and Spanish) trash can decals about proper disposal of hazardous waste and used oil. Include message "only rain down the drain".	PM Include with all cans provided by garbage service.	Hazardous waste and used oil recycling; "only rain down the drain".	Residences and businesses.	County-wide Program DEM City of Napa
5C Napa-Vallejo Household Haz Waster Facility	Continue to provide	PM Open to the public every Fri and Sat, (May-Oct) and two weekends per month (Nov-Apr). EM Quantity and types of waste collected.	Pesticides, cleaners, batteries, solvents, paints, thinners, old gasoline, adhesives, syringes.	Residences and businesses.	
5D Upvalley hazardous waste collection	Continue to hold hazardous waste collection days for the upvalley community.	PM 2-4 events per year	Paints, solvents, pesticides, etc.	Residences	County-wide Program DEM
5G <i>Creek Dumping Brochure</i>	<i>Mail to property owners adjacent to streams.</i>	PM <i>Mailed to > 80% of property owners adjacent to streams.</i>		Private residences	County-wide Program NCFCWCD
5I	Place ad in Yellow pages and purchase "used Oil Recycling in Napa County" radio advertisement	PM Advertisement placed			County-wide Program City of Napa DEM
5J Used oil recycling (cont)	Provide Point of purchase info at stores that sell used oil.	PM 50 percent of businesses selling used oil participating first year. 80 Percent 2nd year. EM Amount of used oil collected.	Why used oil should be recycled, locations in Napa County that accept used oil.	Public	
5K Prioritize future outreach	Prioritize outreach to address other sources of SW pollution based upon results of illicit discharge data.	PM Outreach priorities established.	Depends on the priority pollutants and most common sources.	Public	County-wide Program NCFCWCD
5L Develop materials	Develop priority outreach materials	PM One new message/outreach piece per year.			
5M Distribute materials	Method of distribution will depend on the target audience of the outreach materials.	PM Materials distributed			

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6. Outreach to schools					
6C Conduct presentations	Conduct presentations.	PM Present to 5 classrooms by 2nd year, 10 classrooms every year thereafter.		Grades 3-5	County-wide Program RCD
6D Evaluation	Conduct survey before and after presentation to assess understanding of SW pollution.	PM Survey conducted EM Results analyzed for accomplishments and deficiencies.			
6E Program improvement	Improve program lesson plans and activities based on feedback from students and teachers.	PM Lesson plans and activities revised as needed.			

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Table 14: Public Involvement and Participation Element

Activity/BMP's	Implementation Plan	Quantifiable Target/Evaluation Tool	Message(s)/Pollutants Addressed	Targeted Audience(s)	Implementers
2. Stormdrain Stenciling					
2B SD stenciling program	Provide materials and supplies to citizens and groups. Advertise program on SW website, SW booth, and at applicable stewardship group meetings.	PM One SD stenciling in each municipality per year (except St. Helena and Yountville) until all storm drains are marked.	No dumping - SD drains to creek, river, bay.	Citizen volunteers.	County-wide Program RCD NCFCWCD
3. Water Quality Monitoring					
3E Train volunteers	Implement training program to ensure data quality.	PM Volunteers trained	proper use of sampling equipment and using water quality kits.	Citizen volunteers.	County-wide Program RCD
3F Monitoring	Implement volunteer water quality monitoring program.	PM Implement monitoring program. 12 sites FY 04/05; 18 sites FY 05/06. EM Use of data to establish needed programs and characterize water quality.	To be determined (e.g. Temp, DO, pH, etc.)		
4. Creek Cleanups					
4 Coast and Creek Cleanup Day	Promote and facilitate event.	PM Increase garbage collected and number of participants by 10% in 2003. EM Number of participants and amount of garbage collected.	Trash and litter	Citizen volunteers	County-wide Program RCD NCFCWCD DEM
5. Stewardships					
5A Salvador Creek Stewardship	Hire the RCD to coordinate and support activities in the stewardship group.	PM Stewardship meeting held, mission statement adopted, and group activities conducted.	Stream function, plants and wildlife, invasive species, restoration, creek cleanup events, etc.	Residents in the Salvador Creek Watershed.	Local Program City of Napa Napa County
5B Rutherford Dust Restoration Team	Provide staff to support restoration efforts along the Napa River in Rutherford.	PM Conceptual restoration plan developed.	Enhanced riparian habitat and improved stream function.	Landowners along a 4 mile reach of the Napa River in Rutherford.	Local Program Napa County

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Table 15: Illicit Discharge Detection and Elimination Element

Activity/Best Management Practices		Implementation Plan	Quantifiable Target/ Evaluation Tool	Message(s)/ Pollutants Addressed	Targeted Audience(s)	Implementers
1. Legal Authority						
1B	Evaluate and amend	Evaluate effectiveness of ordinance w.r.t pollutants addressed.	PM Ordinance evaluated and amended as necessary. EM Recommendations made.	Nonstormwater discharges not regulated under existing ordinance.	Activities within the jurisdiction that result in regulated nonstormwater discharges.	All Local Programs
1D	ERP Training	Train appropriate staff on the policies and procedures of the ERP.	PM All relevant staff trained annually.	Nonstormwater discharges must be prevented to protect water quality.	Code enforcement staff.	
1E	Evaluate and amend ERP	Evaluate effectiveness of ERP w.r.t. ensuring compliance with the SW ordinance.	PM ERP evaluated and modified as necessary. EM % of violators improving pollution prevention practices. Number and type of discharges not abated.		NA	
2. Spill Response						
2E	Staff Training	Implement training program. Administer a survey at the beginning of the training to gauge staff's understanding of illicit discharges. At the end of the training, give case studies as a quiz to ensure staff can recognize illicit discharges and understand the procedures for responding to them.	PM All relevant staff trained. EM Staff performance on quiz.	Only rain down the Storm drain. Oil, grease, sediment, paint, detergents.	Municipal staff	All Local Programs
2G	Record keeping	Dedicated staff will maintain and update data base and generate reports as requested. Reports used to determine common pollutants, activities contributing to non SW discharges, and repeat offenders. Information used to prioritize PEO efforts, business inspections, and conduct enforcement.	PM Annual reports generated on time. EM Use of reports to prioritize outreach and business inspections. Number of spills prevented from reaching waters of the State.			

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Table 15: Illicit Discharge Detection and Elimination Element

Activity/Best Management Practices		Implementation Plan	Quantifiable Target/ Evaluation Tool	Message(s)/ Pollutants Addressed	Targeted Audience(s)	Implementers
2H	Develop a road kit.	Develop appropriate outreach materials for distributing to violators (e.g. creek dumping, paint and other haz waste disposal, surface cleaning, construction BMP's, etc.)	PM Materials developed. Provide a road kit for every vehicle used for inspection and maintenance purposes. Distribution of materials tracked with spill investigation form. EM # of repeat offenses.	Sediment, grease, oil, sediment, landscape waste, etc.	Inspectors and maintenance staff	County-wide Program NCFCWCD
3. SD System Mapping						
3B	Identify data gaps.	Identify data gaps.	PM Data gaps identified.	final map will assist in locating outfalls.	NA	All Local Programs
3F	Identify data gaps.	Identify data gaps.	PM Data gaps identified.	Final storm drain map will help accurately trace illicit discharges.		
4. Business Inspections						
4B	Distribute BMP booklets	Distribute BMP guides during routine restaurant inspections and all restaurant permit applications.	PM Distributed to all restaurants inspected and with all restaurant permit applications. EM % of businesses in compliance	Legal requirements; proper management and disposal of litter, grease, oils, detergents.	Food service Facilities	All Local Programs
4D	Training for inspectors	Develop and implement training program for inspectors. Use post survey to gauge inspector's understanding of the requirements.	PM Annual training for inspectors as appropriate. EM Score on post survey.	Phase II requirements; impacts of grease, soaps, and other pollutants potentially generated from restaurants on water quality, proper use of BMP's	Inspectors	

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Table 15: Illicit Discharge Detection and Elimination Element

Activity/Best Management Practices		Implementation Plan	Quantifiable Target/ Evaluation Tool	Message(s)/ Pollutants Addressed	Targeted Audience(s)	Implementers
4E	<i>Inspections</i>	<i>Conduct restaurant inspections</i>	<i>PM Inspect at least 25% of restaurants annually. EM % of restaurants in compliance.</i>	<i>Meet local and state requirements for SW discharges.</i>	<i>Food service facilities</i>	All Local Programs
4G	<i>Inspections</i>	<i>Implement inspection program for businesses that handle hazardous materials and waste.</i>	<i>PM Inspection program implemented; inspect 300 facilities per year. EM % of businesses in compliance.</i>	<i>Legal requirements; Proper use of BMP's to reduce SW pollution.</i>	<i>Commercial facilities</i>	
4H	Business Newsletter	Produce and mail annual newsletter to businesses which includes a message on SW regulations and preventing SW pollution.	PM Annual newsletter mailed to all regulated businesses.	Grease, oil, hazardous materials, etc.	Businesses regulated by DEM	County-wide Program DEM

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Table 16: Construction Site Runoff Control Element

Activity/Best Management Practices	Implementation Plan	Quantifiable Target/ Evaluation Tool	Message(s)/Pollutants Addressed	Targeted Audience(s)	Implementers
1. Legal Authority					
1B Evaluate ordinance	Evaluate requirements and compliance with local, state, and federal regulations.	PM Ordinance evaluated and amended as necessary.	Ensure that the ordinance provides the most effective prevention of construction site pollutants.	Construction sites.	All Local Programs
1D ERP Training	Train appropriate staff on the ERP procedures and policies.	PM All relevant staff trained annually	Effective ESC measure and BMPs are necessary to protect water quality.	Code enforcement officers.	
1E Evaluate and amend ERP	Evaluate effectiveness of ERP w.r.t. ensuring compliance with the SW ordinance.	PM ERP evaluated and modified as necessary.		NA	
3. Inspection Program					
3D Implement training program	Inspectors from each municipality to attend training program.	PM Annual training of all relevant inspectors. EM Use pre and post surveys to ensure that participants understand the requirements.	Proper use of BMP's to reduce non SW pollution; sediment, pathogens, oil, paint, etc.	Construction site inspectors	All Local Programs
3E Implement inspection program	Inspect construction sites prior to the onset of the wet season and after major storm events.	PM Inspect 5 construction sites within 48 hours of a major (>0.25 inches) storm event.EM % of sites inspected during wet season; % of sites in compliance.			Local Programs City of Napa Napa County
		PM Inspect all projects > 1 acre at onset of the wet season; Inspect all projects > 1 acre within 48 hours of a storm event (>0.25 inches/24hours) from April 16th through December 31st; Inspect all projects > 1 acre within 48 hours of a storm event (>1.0 inches/24hours) from January 1 through April 15th. EM % of sites inspected during wet season; % of sites in compliance.			Local Programs Yountville St. Helena Calistoga

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Table 16: Construction Site Runoff Control Element

Activity/Best Management Practices	Implementation Plan	Quantifiable Target/ Evaluation Tool	Message(s)/Pollutants Addressed	Targeted Audience(s)	Implementers
4. Outreach					
4B Provide BMP fact sheet(s) for construction activities	Provide BMP fact sheets, guidance documents, and handbooks to contractors and developers	PM Informational materials (Stormwater BMP Handbooks, ESC Field manual, Guidelines for Construction Projects, etc.) provided to public upon request. EM # distributed.	Sediment, cement, paint, oils, trash, etc.	Contractors and developers	County-wide Program NCFCWCD
4D Construction site erosion control workshop	Encourage planners, inspectors, municipal staff, contractors, and architects to attend annual construction workshops held by the Regional Board and SFEI.	PM Advertisement posted in Solano-Napa Builders Exchange newsletter, brochures provided at planning and building departments. EM Attendance	Phase II requirements, proper use of BMP's to control runoff.	Planners, inspectors, municipal staff, contractors, architects.	County-wide Program NCFCWCD
4E Construction site erosion control workshop	Attend workshop.	PM At least one planner/inspector and one public works employee shall attend.	Phase II requirements, proper use of BMP's to control runoff.	Planners, inspectors, municipal staff, contractors, architects.	All Local Programs
4F Evaluate and Revise	Receive feedback on outreach materials and revise materials as needed.	PM Evaluate annually EM Revise as needed.			County-wide Program NCFCWCD

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Table 17: Post-Construction Runoff Management Element

Activity/Best Management Practices		Implementation Plan	Quantifiable Target/Evaluation Tool	Message/Pollutants Addressed	Targeted Audience(s)	Implementers
1. Legal Authority						
1D	ERP Training	Train appropriate staff on the ERP procedures and policies.	PM All relevant staff trained annually.	Post-Construction BMPs must be properly maintained to ensure that water quality is protected.	New and redevelopment > 1 acre.	All Local Programs
1E	Evaluate and amend ERP	Evaluate effectiveness of ERP w.r.t. ensuring compliance with the SW ordinance.	PM ERP evaluated and modified as necessary. EM Recommendations made.			
2. Design Standards, * = standards in Attachment 4 of State Municipal General Permit.						
2A	Introductory training	Develop training materials and curricula.	PM Materials and curricula developed.	Overview of Post-construction requirements (existing state and upcoming local) and use of appropriate BMP's.	Planners	County-wide Program NCFCWCD
Design Standards Attachment 4* - All categories: Single-Family Hillside Residences, 100,000 sq. ft. Commercial Developments, Automotive Repair Shops, Retail Gasoline Outlets, Restaurants, Home Subdivisions with 10 or more housing units, Parking Lots 5,000 sq ft or more or with 25 or more parking spaces						
2B	Peak SW runoff discharge rates	Adopt standard in attachment 4 of the State General Permit	PM Design standard adopted	PD peak SW runoff discharge rates shall not exceed estimated predevelopment where increased runoff will result in increased potential for downstream erosion.	New development and redevelopment	Local Programs Yountville Calistoga Napa County
2C	Conserve natural areas			Cluster development, limit clearing and grading, maximize trees and other vegetation.		
2D	Minimize SW pollutants of concern			Incorporate BMP's or combination of BMP's to reduce runoff of pollutants of concern to the MEP.		
2E	Protect slopes and channels			Plans must include BMP's to decrease potential of slopes and/or channels from eroding and impacting SW runoff.		
Local Programs Napa Yountville Calistoga Napa County						

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Table 17: Post-Construction Runoff Management Element

Activity/Best Management Practices	Implementation Plan	Quantifiable Target/Evaluation Tool	Message/Pollutants Addressed	Targeted Audience(s)	Implementers
<div>2F <i>Provide SD system stenciling and signage</i></div> <div>2G <i>Properly design outdoor material storage areas</i></div> <div>2H <i>Properly design trash storage areas</i></div> <div>2I <i>Provide proof of ongoing BMP maintenance</i></div>	<i>Adopt standard in attachment 4 of the State General Permit</i>	<i>PM Design standard adopted</i>	<div> <i>Mark SD inlets with a sign or stencil that includes a brief statement that prohibits dumping into the SD system.</i> </div> <div> <i>Ensure outdoor storage areas do not contaminate SW runoff.</i> </div> <div> <i>Ensure trash storage areas do not contaminate SW runoff.</i> </div> <div> <i>Ensure that PD BMP's are adequately maintained for the life of the project through maintenance agreements (see Tasks 3A to 3D below).</i> </div>	<i>New development and redevelopment</i>	Local Programs <i>Yountville Calistoga Napa County</i>
<div>2J <i>Design standards for structural of treatment control BMP's</i></div>			<div> <i>Require PD treatment control incorporate either a volumetric or flow-based treatment control standard to mitigate SW runoff.</i> </div>		

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Activity/Best Management Practices	Implementation Plan	Quantifiable Target/Evaluation Tool	Message/Pollutants Addressed	Targeted Audience(s)	Implementers
Design Standards Attachment 4* - 100,000 sq. ft commercial					
2K Properly design loading/unloading dock areas.	Adopt standard in attachment 4 of the State General Permit	PM Design standard adopted	Covers, reduce run-on and runoff, prohibit direct connections of depressed loading docks to SD system.	100,000 sq ft commercial.	Local Programs Yountville Calistoga Napa County
2L Properly design repair/maintenance bays			Design to eliminate run-on and runoff of SW, prohibit direct connections to the SD system.		
2M Properly design vehicle/equipment wash areas			Self-contained and/or covered, equipped with pretreatment facility, and properly connected to sanitary sewer or other appropriately permitted disposal facility.		
Design Standards Attachment 4* - Restaurants					
2N Properly design equipment/accessory wash areas	Adopt standard in attachment 4 of the State General Permit	PM Design standard adopted	Self-contained, equipped with grease trap, and properly connected to sanitary sewer; outdoor wash areas must be covered, paved, have secondary containment, and be connected to the sanitary sewer or other appropriately permitted disposal facility.	Food service facilities.	Local Programs Yountville Calistoga Napa County
Design Standards Attachment 4* - Retail gasoline outlets					
2O Properly design fueling area	Adopt standard in attachment 4 of the State General Permit	PM Design standard adopted	Fueling area properly covered, paved with smooth impervious surface, designed to reduce run-on and runoff.	Retail gasoline outlets	Local Programs Yountville Calistoga Napa County
Design Standards Attachment 4* - Automotive repair shops					
2P Properly design fueling area	Adopt standard in attachment 4 of the State General Permit	PM Design standard adopted	Fueling area properly covered, paved with smooth impervious surface, designed to reduce run-on and runoff.	Automotive repair shops.	Local Programs Yountville Calistoga Napa County

Modifications in Italics

Local Programs = Napa, Yountville, St. Helena, Calistoga, and Napa County

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Activity/Best Management Practices		Implementation Plan	Quantifiable Target/Evaluation Tool	Message/Pollutants Addressed	Targeted Audience(s)	Implementers
2Q	Properly design repair/maintenance bays	Adopt standard in attachment 4 of the State General Permit	PM Design standard adopted	Must be indoors, designed to eliminate run-on and runoff of SW, prohibit direct connections to the SD system.	Automotive repair shops.	Local Programs Yountville Calistoga Napa County
2R	Properly design vehicle/equipment wash areas			Self-contained and/or covered, equipped with pretreatment facility, and properly connected to sanitary sewer or other appropriately permitted disposal facility.		
2S	Properly design loading/unloading dock areas.			Covers, reduce run-on and runoff, prohibit direct connections of depressed loading docks to SD system.		
Design Standards Attachment 4* - Parking Lots						
2T	Properly designing parking areas	Adopt standard in attachment 4 of the State General Permit	PM Design standard adopted	Reduce impervious surfaces of parking areas; infiltrate or treat runoff.	Parking lots	Local Programs Yountville Calistoga Napa County
2U	Properly design to limit oil contamination and perform maintenance			Treat to remove oil and petroleum hydrocarbons at heavily used parking lots; ensure adequate operation and maintenance of treatment systems.		
2V	Consider other appropriate design standards.	Identify and develop other design standards appropriate to community.	PM Additional design standards considered to protect water quality identified.	Stormwater quantity and quality from new development and redevelopment	New development and redevelopment.	
2W	Adopt design standards	Adopt design standards identified in task 2X.	PM Design standards adopted			

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3. Plan Review Process					
3A <i>Develop plan review process</i>	<i>Review and revise plan review process to incorporate new requirements for Post-construction. Plan review process includes a checklist and instructions.</i>	PM <i>Plan review process revised to incorporate new requirements for post-construction.</i>	<i>Ensure that new development and redevelopment projects over 1 acre implement BMP's to the MEP to reduce or eliminate long-term nonstormwater runoff.</i>	<i>Planners and developers.</i>	Local Programs <i>Yountville Calistoga Napa County</i>
3B <i>Develop training program</i>	<i>Develop training program on new revised plan review process.</i>	PM <i>Training program developed.</i>			
3C <i>Implement training program</i>	<i>Implement training program for revised plan review process.</i>	PM <i>Inspection program implemented. Ensure that 100% of the participants understand the requirements. Hold one training session per year.</i>			
3D <i>Adopt plan review process.</i>	<i>Adopt revised plan review process.</i>	PM <i>Process implemented; require all construction sites > 1 acre to incorporate appropriate structural and/or nonstructural controls to the MEP.</i>			

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Activity/Best Management Practices		Implementation Plan	Quantifiable Target/Evaluation Tool	Message/Pollutants Addressed	Targeted Audience(s)	Implementers
4. Long-term Maintenance						
4B	Identify all structural controls operated by the Municipality.	Locate, map, photograph and describe the site conditions of the structural controls. Group the different structural controls with their respective BMPs in a final report.	PM Completed report.		Maintenance staff	Local Programs Yountville Calistoga Napa County
4C	Develop inspection and maintenance schedule.	Develop an inspection and maintenance schedule to maximize efficiency and minimize labor requirements.	PM Completed inspection and maintenance schedule.			
4D	Train maintenance staff.	Develop a training program on proper inspection and maintenance of structural controls, BMPs, and record keeping.	PM Use post test to ensure workers understand training materials and measurable goals. Check records quarterly to ensure compliance with schedule and BMPs 80% of the time.			
4E	Implement maintenance schedule.	Inspect and maintain structural controls according to implementation schedule.	PM Check records to ensure compliance with schedule and BMPs 80% of the time.	Prompt inspection and maintenance of structural controls will reduce discharge of polluted water into the storm drain system and help comply with SWMP.	Maintenance staff	All Local Programs
5. Outreach						
5A	Workshop	Hold annual workshop explaining new requirements and the appropriate use and maintenance of structural and nonstructural control measures.	PM Annual workshops held. EM Attendance.	Long-term runoff management requirements for new and redevelopment. Sediment, oil and grease, trash, fertilizer and pesticides.	Planners, developers, contractors, architects.	County-wide Program NCFCWCD

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Table 18: Municipal Operations Element

Activity/Best Management Practices	Implementation Plan	Quantifiable Target/Evaluation Tool	Message/ Pollutants Addressed	Targeted Audience(s)	Implementers
1. Street Sweeping					
1A Street sweep according to Table 8.	Street sweep according to schedule in Table 8.	PM Review records quarterly to ensure compliance to schedule in Table 1 80% of the time.	Oil and grease, metals garbage, fertilizer, dirt, and leaves.	Street sweeping department	All Local Programs
1E Sweeping Program Evaluation	Evaluate effectiveness of program and make recommendations for improvement (e.g. alter scheduling, frequency, address parked cars, etc.) based on data collected.	PM Evaluation completed, report with recommendations produced annually. EM Recommendations made.			
1G Staff and contractor	Annually train municipal staff and contract sweepers on O&M standards, measurable goals, implementation plans, and record keeping. Use pre and post survey to gauge staffs knowledge of O&M standards and record-keeping practices.	PM All relevant staff and contractors trained annually. EM Staff understanding of O&M standards and record-keeping practices.		Street sweepers	
1I	Develop two different outreach programs to reduce parked cars that interfere with sweeping.	PM 2 pilot programs implemented	Contract Sweepers: Comply with terms of contract in order to assure maximum removal of pollutants from streets. Municipal staff: Comply with implementation plans.		Local Programs City of Napa Napa County
1J	Identify areas to pilot outreach program.	PM Areas identified			
1K	Implement pilot programs in areas with high numbers of parked cars.	PM Pilot programs implemented.			
1L	Evaluate success of pilot programs to determine if full implementation is desirable. Success = measurable decrease in average number of cars on streets.	PM Completed evaluation. EM % increase in sweepable area.			

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Activity/Best Management Practices	Implementation Plan	Quantifiable Target/Evaluation Tool	Message/ Pollutants Addressed	Targeted Audience(s)	Implementers
1O	Implement pilot programs to reduce volume of leaves on streets.	PM Measures implemented	Excessive Leaves Reduce sweeping effectiveness.	Streets sweeping departments and residences.	Local Programs City of Napa Napa County
1P	Evaluate success of pilot programs	PM Evaluation completed EM Increase sweepable areas by 10%.			
1Q	Implement most effective program to reduce leaves on streets.	PM Program implemented EM Increase total sweepable areas by 25% over 2 years.			
1T	Pilot measures to reduce tree interference with street cleaning.	PM Methods implemented	Trees interfering with sweeping operations.	Streets sweeping departments	
1U	Evaluate success of pilot programs	PM Evaluation completed. EM Increase sweepable areas by 25%.			
1V	Expand pilot programs to other areas if successful.	PM Pilot program implemented. EM Increase total sweepable areas by 25% over 2 years. Evaluate mid-term.			
2. Storm Drain Maintenance					
2B Training	Train municipals staff on use of BMP's.	PM All relevant staff trained annually	Leaves, trash, sediment, oil	Municipal staff.	All Local Programs
2C Routine Inspection and Cleaning	Inspect and clean SD's according to Table 8.	PM Review records quarterly to ensure compliance to schedule in Table 1 80% of the time.			
2D	Assess the need for more frequent cleaning of stormdrains.	PM Assessment completed. EM Recommendations made.			

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3. Stormwater Pump Stations					
3B Train municipal staff	Educate all personnel responsible for SW pump stations about these maintenance standards.	PM All relevant staff trained annually	Sediment and oil	Pump station maintenence crew.	Local Program City of Napa
3C Visual Inspections	Inspect wet wells and forebays for oil spills or other pollutant discharges.	PM Once in June and once in August; Once/month Oct - April.			
3D Maximize pollutant removal prior to discharge.	Conduct comprehensive cleaning of wet wells.	PM Pump stations cleaned annually; prior to wet season.			
4. Litter Control					
4A Services	Provide litter receptacles in litter source areas and empty regularly to prevent spills.	PM Receptacles provided and maintained.	Litter	Public	All Local Programs
4B Assessment	Document areas targeted for litter removal and assess the need for additional/better trash receptacles or more frequent collection.	PM Assessment completed EM Recommendations made.			Local Programs City of Napa
4C Education	Label litter receptacles with anti-littering message	PM 25% of receptacles by 2nd year; 50% by 4th year.			
5. Corporation Yards					
5B SWPPP	Develop a plan for SW management. Includes necessary capital improvements, O&M	PM SWPPP developed with timeline for implementation.	Sediment, oil, paints, chemicals, litter.	Municipal staff.	All Local Programs
5C SWPPP	Implement items from SWPPP.	PM Items implemented over three to five year period. EM Number and types of BMP's impleneted			

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Table 18: Municipal Operations Element

Activity/Best Management Practices	Implementation Plan	Quantifiable Target/Evaluation Tool	Message/ Pollutants Addressed	Targeted Audience(s)	Implementers
6. Road Maintenance					
6C Training	Train employees on O&M standards for roads. Post-survey used to evaluate staff understanding of BMP's.	PM All relevant staff trained annually.	Sediment , asphalt	Municipal staff.	All Local Programs
7. Creek and Ditch maintenance					
7C Training	Train all relevant staff and contractors on maintenance standards.	PM All relevant staff trained annually.	Sediemnt, gas, oil, leaves.	Municipal staff.	All Local Programs
8. Parks and Recreation Facilities					
8A Assessment	Assess the condition of parks and related facilities (e.g. erosion, chemical use, etc.)	PM Assessment completed for one park/agency per year	Pesticides, nutrients, sediment, organic matter, fuels, oils	Maintenance crews	All Local Programs
8C Training	Train all appropriate employees on O&M standards and use of BMP's. Use a post-training quiz to ensure staff understand use of BMP's.	PM All relevant staff trained annually. EM Staff understanding of O&M standards and use of BMP's.			
9. Other Municipal Activities					
9A Prioritize	Prioritize all other municipal activities that could affect SW.	PM Municipal activities prioritized.	Pesticides, nutrients, sediment, organic matter, fuels, oils, trash, paint	Public facilities and employees	All Local Programs
9B Assessment	Assess facility conditions and operating procedures.	PM Assessment completed.			
9C Develop maintenance standards	Compile BMP factsheets	PM Two municipal activities targeted per year.			County-wide Program NCFCWCD
9D Training	Train appropriate personnel on use of BMP's for targeted activities.	PM All relevant staff trained annually for targeted activities.			All Local Programs